Leader in Biomolecular Solutions for Life Science

www.abclonal.com

STK11 Knockout 293T Cell Line, Homozygous

Catalog No.: RM02164

Basic Information

Catalog No.
RM02164

Category
Cell Line

Parental Cell line
293T

Genotype
Knockout

Gene Information

Gene Symbol
STK11

Species
Human

Gene ID
6794

Swiss Prot
Q15831

Synonyms
LKB1; PJS; hLKB1

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Background

This gene, which encodes a member of the serine/threonine kinase family, regulates cell polarity and functions as a tumor suppressor. Mutations in this gene have been associated with Peutz-Jeghers syndrome, an autosomal dominant disorder characterized by the growth of polyps in the gastrointestinal tract, pigmented macules on the skin and mouth, and other neoplasms. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized. [provided by RefSeq, Jul 2008]

Product Information

Description
STK11 Knockout 293T Cell Line is engineered from 293T cell line with Gene-Editing Technology.
Allele-1:65bp deletion in exon1
Allele-2:64bp deletion in exon1
Mammalian cells such as human, rat and mouse cells are normally diploid with two alleles. Homozygote: both alleles were knocked out, mRNA has no signal, no expression of proteins. Heterozygote: only one allele was knocked out, the mRNA transcript levels was decreased compared to wild type, and the protein expression levels was also lower than that of the wild type.

Packaging
1 vial parental cell line and 1 vial knockout cell line

Shipping Conditions
Dry ice

Amount
1~5x10^6 cells/vial

Storage
Store at -20℃

Protocol
Upon arrival, it should be maintained in DMEM medium with 10%(v/v) fetal bovine serum and 100U penicillin-streptomycin, at 37℃ with 5% CO_2 condition.
1. Thaw the vial in 37℃ water bath ,and shake it to melt as soon as possible.
2. Transfer the cell suspension to a 15mL conical tube with pre-warmed 5mL complete medium and centrifuge 1000rpm for approximately 5 minutes at room temperature.
3. Remove and discard the supernatant.
4. Resuspend the cell pellet with 1mL pre-warmed complete medium and seed in 10cm dish.
5. Add 8-10mL of complete medium.
6. Incubate the culture at 37℃ incubator with 5% CO_2.
7. A subcultivation ratio of 1:2-1:4 is recommended.

Sequencing data

WT ACGTTCATCCACCG**********TGATGGGGGACCTG
Mut ACGTTCATCCACCG***Deletion***TGATGGGGGACCTG
Allele-1: 65bp deletion in exon1

WT GTTCATCCACCGCA**********GATGGGGGACCTGC
Mut GTTCATCCACCGCA***Deletion***GATGGGGGACCTGC
Allele-2: 64bp deletion in exon1

Genome sequence analysis of PCR products from parental (WT) and STK11 knockout (KO) 293T cells, using sanger sequencing.

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.